

ABSTRACT

An afterburner device and a method for operating an afterburner device, especially for chemical reformers for obtaining hydrogen, for making heat available from fuels and/or residual gases from a reforming process and/or a fuel cell process. In this context, heat is supplied in a controlled manner from recirculated combustion gases to a first housing and/or a combustion chamber situated in it and at least in part filled with heat resistant, open-pored foamed ceramics. The regulation takes place, for instance, based on a temperature recorded in the combustion chamber using an infrared light measurement.